Receipt date: 07/13/2006 Filing Date INFORMATION DISCLOSURE STATEMENT BY APPLICANT

PTO/SB/08A (07-05) Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE nd to a collection of information unless it contains a valid OMB control number.

Complete if Known Application Number 10/574,767 October 12, 2004 First Named Inventor Douglas B. Fisher et. al. Art Unit Unknown Examiner Name Unknown Attorney Docket Number RR-613 PCT/US

(Use as many sheets as necessary) Sheet 1

				T DOCUMENTS	
Initials* N	Cite No.1	Document Number Number-Kind Code ² (************************************	Publication Date MM-DD-YYYY	Name of Patentea or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
7R.E./		US- 4,743,339	05-10-1988	Faix et. al.	
1		US- 4,843,247	06-27-1989	Yamazoe et. al.	
		US- 4,940,900	07-10-1990	Lambert	
		^{US-} 5,546,792	08-20-1996	Becker	
		^{US-} 5,719,665	02-17-1998	Yamazoe	
		^{US-} 5,831,721	11-03-1998	Alkafeef	
		^{US-} 5,959,194	09-28-1999	Nenniger	
		US- 2002/0081742	06-27-2002	Mirotchnik et. al.	
		^{US-} 2002/0105645	08-08-2002	Eriksson	
\top		^{US-} 2002/0139929	10-03-2002	Mullins et. al.	
1/		US- 2002/0140925	10-03-2002	Mougin	
V		^{US-} 2003/0154036	08-14-2003	Gysling et. al.	
		US-			
	П	US-			
		US-			
\neg		US-			

FOREIGN PATENT DOCUMENTS								
	Cite No.		Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Г		
		Country Code ³ "Number ⁴ "Kind Code ⁵ (# known)	MM-DD-YYYY		Or Relevant Figures Appear	۲°		
/R.E./		WO 87/01456	03-12-1987	Marathon Oil				
1		WO 92/17767	10-15-1992	Jalkanen				
		WO 97/14953	04-24-1997	Shell International Research		Г		
		WO 99/51963	10-14-1999	Norsk Hydro ASA				
V/		WO 00/46586	08-10-2000	Jorin Limited		Г		
-		WO 01/40771	06-07-2001	APS Technology, Inc. et. al.		Г		

/Robert Eom/ 03/09/2009 Considered

"EXAMINER: Initial fireference considered, whether or not citation is in conformance with MPEP 509. Draw line through clastion if not in conformance and not considered, include copy of this form with next communication to applicant. Applicant's unique clastion designation number (optional). See Kinds Codes of USPOP Option Downserts at www.uspo.gor or MPEP 9010. "Enter Office this issued the document, by the two-letter code (VMPO Standard ST 3)." For Jupanese pitent documents, the indication of the year of the reign of the Emperor must precede the senial number of the patient document. Which of document upon the appropriate symbols as indicated on the document under MMPO Standard ST 16 possible. "Applicant is uplace a check make here it English linguage." Translation is attached.

Interestions a standards.

This collection of Information is required by 37 CPR 1.97 and 1.98. The information is required to obtain or retain a benefit by this public which is to file (and by the USFTO to process) an application. Confidentiality is governed by 33 U.S.C. 122 and 37 CPR 1.14. This collection is estimated to task 2 hours to complete, including gathering, perparing, and submitting the completed application from the MESFTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Tadesman Cfiles, P.O. Bost 1453, (Assandins, N. 223-1445). DO NOT SEND PEES OR COMPLETED FORMS TO THIS ADDRESS. SENDING. TO: Commissionar for Patants, P.O. Box 1450, Alaxandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

US-

PTO/SB/08A (07-05) oved for use through 07/31/2006 OMB 0651-0031

Under the Paperwork Reduction Act of 1995, no persons are required	U.S. Patent and Trac	lemark Office; U.S. DEPARTMENT OF COMMERCI nation unless it contains a valid OMB control number		
Substitute for form 1449/PTO	Complete if Known			
	Application Number	10/574,767		
INFORMATION DISCLOSURE	Filing Date	October 12, 2004		
	First Named Inventor	Douglas B. Fisher et. al.		
STATEMENT BY APPLICANT	Art Unit	Unknown		
(Usa as many sheets as nacessary)	Examiner Name	Unknown		

Sheet |2 of 4 Attorney Docket Number RR-613 PCT/US U. S. PATENT DOCUMENTS Cita No.1 Document Number Name of Patentea or Pages, Columns, Lines, Where Initials* MM-DD-YYYY Applicant of Cited Document Relayant Passages or Relevant Number-Kind Code^{2 (F known)} Figures Appear US-US-ÜS-US-US-US-110 115. US-US-US-US-US-US-US-US-

FOREIGN PATENT DOCUMENTS								
Exeminer Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevent Pesseges	Г		
		Country Code ² "Number ⁴ "Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	٦.		
R.E./		EP 727671	08-21-1996	AT&T Corp.				
		DE 19744246	04-29-1999	Suhr				
		GB 2 364 364	01-23-2002	Institut Français du Petrole		Г		
		CA 2,254,376	05-25-1999	Hitachi, Ltd.		Т		
V/_		CA 2,337,888	02-17-2000	Exxon Research		Г		
A		CA 2,443,098	10-24-2002	Cargill, Inc.		Т		

Signature /Robert Eom/ Considered 03/09/2009

"EXAMINER initial if reference considered, whether or not clasion is in conformance with MPEP 699. Draw line through clasion if not in conformance and not considered, include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPP 09 and Comments at wave used ago or MPEP 901.0.4. "Enter Office that issues the document, by the two-letter code (MPD Standard ST.3)." For Jahnetes photol documents, the indication of the year of the relign of the Emperor must precede the senial number of this patient document. "Not of document use the programme senior is to place and extra which are Emperor must precede the senial number of this patient document. "Not of document use the programme senior is to place and extra which are Emperor must precede the senial number of this patient document. "Not of document use

Translation is altabed. The required by 37 CPR 197 and 188. This information is required to obtain or retein a benefit by the public which is to fits (and by the information is proposed by the public which is to fits (and by the information is proposed by the public which is to fits (and by the information is proposed by the public which is to fits (and by the information is proposed by the public which is to fit in the information is proposed by the public which is to fit in the information formation is the information formation in the information formation is proposed by the information formation in the information formation is the information formation of the information formation in the information formation in the information formation is the information formation in the information in the i

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Receipt date: 07/13/2006

Sheet 3

PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 6651-0031
U.S. Patent and Tredement Office, U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons ere required to respond to a collection of Information unities it contains a well GOMB control number. Complete if Known Substitute for form 1449/PTO Application Number 10/574,767 Filing Date October 12, 2004 INFORMATION DISCLOSURE First Named Inventor Douglas B. Fisher et. al. Art Unit Unknown

STATEMENT BY APPLICANT (Use as many sheets as necessary)

of 4

Examiner Name Linknown Attorney Docket Number RR-613 PCT/US

	U. S. PATENT DOCUMENTS								
Examiner Initials*	Cite No.	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant			
		Number-Kind Code ^{2 (Finners)}			Figures Appear				
		US-							
		US-							
		US-							
		US-							
	_	US-							
	-	US-							
		US-							
	_	US-							
		US-	†						
		US-	† · · · · †						
		US-							
		US-	T						
	\vdash	US-							
		US-	1						
		US-							
	\vdash	US-	T						
		US-							
	T	US-	1						
	-	US-	1		1				

		FOREIG	ON PATENT DOCU	IMENTS		
Examiner initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ *Number ⁴ *Kind Code ⁵ (# known)	MM-DD-YYYY		Or Relevant Figures Appear	Te
/R.E./		CA 2,470,477	07-10-2003	Lemmon et. al.		
						L

03/09/2009 /Robert Fom/ Considered "EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through clistion if not in conformance and not considered. Include copy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional). 'See Kinds Codes of USPPO Peter Dourness at <u>www.uspto.gov</u> or MPEP 901.0." -Enter Officine this lessed the document, by the two-letter code (VIPPO Standedt S73). "For Jupanese patient documents, be indication of the year of the regn of the Emperor must precede the serial number of the patient document. We do document used to the control of the patient document. We find of document to the perporation symbols ex indication for the document uner VIPPO Standedt S71 of possible. 'Applicant is to place a check match here I End of document used.'

Translation is ettached.

Institution of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) en application. Confidentially is governed by 35 U.SC. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and surfainfing the completed application from to the USPTO. Time will vary depending upon the heldwise case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this bursen, should be sent to the Chef Information Officer, U.S. Patient and Trademan's Chief. P.O. Des 1456, Massardis, N. 27331-145. CO NOT SENNE PEES OR COMPLETE PORRAIS TO HAS ADDRESS. SENDING. TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

'Receipt date: 07/13/2006

PTO/SB/08B (07-05)
Approved for use through 07/31/2006. OMB 0651-0031

Under the Paperwork Re-	duction A	ct of 1995, no persons ar		and Irademark Office; U.S. DEPART MENT OF COMMERCE of information unless it contains a valid OMB control number. Complete if Known
Substitute for fulfill 14437 10			Application Number	10/574,767
INFORMATION			Filing Date	October 12, 2004
STATEMENT	BY A	PPLICANT	First Named Inventor	Douglas B. Fisher et. al.
(Use as many sh	ante ae a	acecend.	Art Unit	Unknown
(OSC &S many Sin	iota da n	ucessary)	Examiner Name	Unknown
Sheet 4	of	4	Attorney Docket Number	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/R.E./		T. Theophanides (ed.), Fourier Transform Infrared Spectroscopy, Reidel Publishing, Boston, 1984, pp 56-64,125-135, 159-166	
/R.E./		Jamaluddin, A.K.M. et. al., "A Comparison of Various Laboratory Techniques," Society of Petroleum Engineers, SPE Paper No. 72154, 2001	
/R.E./		A. Turta et. al., "Variation of Oil-Solvent," Special Edition of the Journal of Canadian Petroleum Technology 38, No. 13 Paper: 97-81, 1999	
/R.E./		Jamaluddin, A.K.M. et. al., "Laboratory Techniques to Measure Thermo," JCPT, July 2002, Vol. 41	
/R.E./		Takabayaski, Katsumo et. al., Japan Oil, Gas and Metals National Corp., "Interfacial Tension Measurement between Oil and Gas Phases under High Temperature,"undated, 11 pp.	
/R.E./		D. B. Fisher et. al., "Use of Magnetic Resonance Imaging and Advanced Image Analysis," Society of Petroleum Engineers, SPE Paper No. 59330, 2000	
/R.E./		Brust, Gregory, "Nuclear Magnetic Resonance Spectroscopy," downloaded from www.psrc.usm.edu/magrog/nmr.htm, 8/15/03, 3 pp.	
/R.E.	/	Hornak, J.P. copyright 1997-99, The Basics of NMR, downloaded from www.cis.rit.edu/htbooks/nmr, 8/15/03, 66 pp.	
			ı

	Examiner Signature	/Robert Eom/	Date Considered	03/09/2009
--	-----------------------	--------------	--------------------	------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

consistence, include copy of the 100 mW with next communication to applicate.

The control of th